



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 680 730 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
24.01.1996 Bulletin 1996/04

(51) Int. Cl.⁶: A61B 17/22, A61B 17/32,
A61M 25/00, F16C 1/02

(43) Date of publication A2:
08.11.1995 Bulletin 1995/45

(21) Application number: 95201743.2

(22) Date of filing: 15.03.1990

(84) Designated Contracting States:
DE FR GB

(30) Priority: 16.03.1989 US 324616

(62) Application number of the earlier application in
accordance with Art. 76 EPC: 90302792.8

(71) Applicant: Shilber, Samuel
Mundelein, Illinois 60060 (US)

(72) Inventor: Shilber, Samuel
Mundelein, Illinois 60060 (US)

(74) Representative: Woodward, John Calvin et al
London EC1A 7DH (GB)

(54) Rotary catheter for atherectomy system

(57) An atherectomy system (10) insertable into a
human blood vessel (12) over a flexible guidewire (17)
for remotely cutting and removing an obstruction (15)
therein, having a diametrical stabilized torque transmit-
ting flexible rotary catheter (19) equipped with a rotary
coreing means (22) at its distal end and a motor (24) con-
nected to its proximal end.

EP 0 680 730 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 95 20 1743

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.CLS)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	EP-A-0 254 414 (SHIBER) * the whole document * ---	1,2,8	A61B17/22 A61B17/32 A61M25/00 F16C1/02
A	US-A-4 653 496 (BUNDY) * column 3, line 17 - column 4, line 58; claim 2; figures *	1-4	
A	DE-A-32 42 341 (THEERMANN) * page 13, line 6 - line 12; figures 1,2 *	1,3,4	
A	US-A-3 773 034 (BURNS) * column 3, line 1 - line 32; figures 2-4,6,7 *	4-6	
P,X	US-A-4 819 634 (SHIBER) * the whole document *	1-8	
P,X	EP-A-0 347 098 (SHIBER) * column 6, line 41 - column 7, line 25; figures 4-7,9 *	1-8	
E	EP-A-0 358 825 (SHIBER) * the whole document *	1-8	TECHNICAL FIELDS SEARCHED (Int.CLS)
A	US-A-4 030 503 (CLARK, III)		A61B
A	US-A-4 706 671 (WEINRIB)		
The present search report has been drawn up for all claims			
Place of search	Date of compilation of the search	Examiner	
THE HAGUE	27 November 1995	Klein, C	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
A : technological background	D : document cited in the application		
O : non-written disclosure	L : document cited for other reasons		
P : intermediate document	& : member of the same patent family, corresponding document		